

Syllabus**ISE219: Directory Services Administration**

Credit Hours: 4

Prerequisites: ISE205

Course Description

Students taking this course will obtain the knowledge and skills necessary to plan, install, configure, manage, maintain, and troubleshoot Active Directory in a Microsoft Windows Server 2008 domain. Students will also learn to use Group Policy objects to manage user and computer environments and deploy software. This course is designed to help students prepare for and pass Microsoft Certified Technology Specialist Examination 70-640.

Instructor Contact Information

Instructor Name	Gerard Arthus
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Course Length

The college evaluates each course in terms of quarter hours of credit. One unit of credit is usually equivalent to a minimum of ten academic instruction hours of lecture and examination, twenty hours of skill development, or thirty hours of externship, or a combination of the three. An academic instructional hour is fifty minutes.

This class will meet for the equivalent of a minimum of five (5) instructional hours or as otherwise scheduled by the college and at least in conformance with this minimum and the Syllabus. As specified by the Method of Instruction section of this Outline, the instructor will ensure that the total class sessions presented consist of a minimum of 27.5 direct faculty instruction hours and a maximum of 27.5 appropriate classroom activity hours.

All course offerings require outside preparation time, which is approximately two hours per lecture instructional hour and/or one hour per skill development instructional hour, depending on the background, interest, abilities, and motivation of the individual student.

Course Objectives

By the end of this course, you should be able to:

1. Understand the purpose and structure of Active Directory in a Windows Server 2008 domain.

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2. Configure an Active Directory Domain and Active Directory Forest.
3. Configure a Read-Only Domain Controller (RODC).
4. Understand and configure Active Directory Lightweight Directory Services (AD LDS).
5. Understand and configure trusts.
6. Understand and configure Active Directory Sites.
7. Understand and configure Active Directory replication.
8. Understand the Global Catalog and Flexible Single Master Operations (FSMO) Roles.
9. Configure the Global Catalog and additional Global Catalog servers.
10. Configure operations masters.
11. Understand and create Active Directory Users, Computers and Groups.
12. Automate the creation of Active Directory accounts.
13. Understand the structure, use and maintenance of Organization Units (OUs) in Active Directory.
14. Understand the purpose, use and best practices in using Group Policy in Active Directory.
15. Understand the define Group Policy architecture.
16. Configure User and Computer environments using Group Policy.
17. Plan and configure an audit policy using Group Policy Objects.
18. Manage and install software through Group Policy using software deployment Group Policy Objects.
19. Plan and implement a Group Policy management strategy using Group Policy Object templates.
20. Monitor Active Directory using the Windows Server 2008 Reliability and Performance Monitor.
21. Perform offline maintenance of Active Directory and configure Active Directory backup and recovery.
22. Create Domain Name System (DNS) Zones and configure DNS Zone server settings, transfers and replication.
23. Understand and configure Active Directory Rights Management Service (AD RMS).
24. Understand and configure Active Directory Federation Services (AD FS).
25. Understand and install Active Directory Certificate Services. Manage certification templates, enrollments and replication.

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26. Configure CA server settings.

Gradebook

A student's performance in this course will be evaluated using a variety of factors listed below. Instructors must use a minimum of three (**homework, tests, and a final exam are required**), and it is recommended that instructors use all five areas in your evaluation.

The exact weight to be given to any particular area is determined by the instructor and will normally fall within the ranges listed below.

Area	Percentage for this Course	Suggested Range
Final Exam	25%	20 – 25%
Tests	40%	20 – 40%
Homework	15%	10 – 15%
Project/Research Paper	10%	20 – 25%
Class Participation	10%	10 – 15%
TOTAL	100%	

Letter Grade	Points	Explanation
A	94-100	Excellent
B	84-93	Above Average
C	74-83	Average
D	64-73	Below Average
F	63 & Below	Failure

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Textbook & Instructional Material

70-640: Windows Server 2008 Active Directory Configuration, Microsoft Official Academic Course with Wiley PLUS
Wiley Publishing, 2010

LabSim 70-640 Configuring Windows Server 2008 Active Directory, TestOut Corporation

The instructor might utilize additional instructional materials as provided by the publisher.

Course Outline

Term:

Class Date: <u>Week 1 – 05 December 2013</u> Lesson 1: <i>Overview of Active Directory Domain Services</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 1.</u></p> <p><u>Install VMWare Workstation 9 and create 4 virtual machines running Windows Server 2008.</u></p> <p><u>Lab 1 in the lab manual.</u></p> <p><u>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</u></p>	<p><u>Read chapter 1 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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Class Date: <u>Week 2 – 12 December 2013</u> Lesson 2: <i>Implementing Active Directory</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 2.</u></p> <p><u>Lab 2 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 2 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>
Class Date: <u>Week 3 – 19 December 2013</u> Lesson 3: <i>Working with Active Directory Sites</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework

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<p><u>Do all of the Knowledge Assessment Questions in chapter 3.</u></p> <p><u>Lab 3 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 3 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>
<p>Class Date: <u>Week 4 – 02 November 2013</u> Lesson 4: <i>Global Catalog and Flexible Single Master Operations (FSMO) Roles</i></p>	<p>Homework Due Date: <u>By the end of the next week.</u></p>
<p>In Class Activities</p>	<p>Homework</p>
<p><u>Do all of the Knowledge Assessment Questions in chapter 4.</u></p> <p><u>Lab 4 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise,</p>	<p><u>Read chapter 4 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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<p>and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	
<p>Class Date: Week 5 – 09 November 2013 Lesson 5: <i>Active Directory Administration</i></p>	<p>Homework Due Date: <u>By the end of the next week.</u></p>
<p>In Class Activities</p>	<p>Homework</p>
<p><u>Do all of the Knowledge Assessment Questions in chapter 5.</u></p> <p><u>Lab 5 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 5 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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Class Date: <u>Week 6 – 16 November 2013</u> Lesson 6: <i>Security Planning and Administrative Delegation</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 6.</u></p> <p><u>Lab 6 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 6 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>
Class Date: <u>Week 6 – 16 November 2013</u> By the end of the next week. Lesson 7: <i>Introduction to Group Policy</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<u>Do all of the Knowledge Assessment Questions in chapter 7.</u>	<u>Read chapter 7 in the textbook and all the materials posted on the web-assist site; and do the Discussion</u>

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<p><u>Lab 7 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Forum posted on Web-Site for this week.</u></p>
<p>Class Date: <u>Week 7 – 23 November 2013</u> Lesson 8: <i>Configuring the User and Computer Environment Using Group Policy</i></p>	<p>Homework Due Date: <u>By the end of the next week.</u></p>
<p>In Class Activities</p>	<p>Homework</p>
<p><u>Do all of the Knowledge Assessment Questions in chapter 8.</u></p> <p><u>Lab 8 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was</p>	<p><u>Read chapter 8 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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unfamiliar with the information.	
Class Date: Week 7 – 23 November 2013 Lesson 9: <i>Performing Software Installation with Group Policy</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 9.</u></p> <p><u>Lab 9 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 9 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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Class Date: <u>Week 8 – 30 November 2013</u> Lesson 10: <i>Planning a Group Policy Management and Implementation Strategy</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 10.</u></p> <p><u>Lab 10 in the lab manual.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 10 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>
Class Date: <u>Week 8 – 30 November 2013</u> Lesson 11: <i>Active Directory Maintenance, Troubleshooting and Disaster Recovery</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 11.</u></p>	<p><u>Read chapter 11 in the textbook and all the materials posted on the web-assist site; and do the Discussion</u></p>

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<p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Forum posted on Web-Site for this week.</u></p>
<p>Class Date: Week 9 – 06 December 2013 Lesson 12: <i>Configuring Name Resolution and Additional Services</i></p>	<p>Homework Due Date: <u>By the end of the next week.</u></p>
<p>In Class Activities</p>	<p>Homework</p>
<p><u>Do all of the Knowledge Assessment Questions in chapter 12.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 12 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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Class Date: Week 9 – 06 December 2013 Lesson 13: <i>Configuring Active Directory Certificate Services</i>	Homework Due Date: <u>By the end of the next week.</u>
In Class Activities	Homework
<p><u>Do all of the Knowledge Assessment Questions in chapter 13.</u></p> <p>Document and record all work with appropriate screenshots (Using Greenshot screen-capture software; or the Snagit feature in Windows 7) and clear, concise, and understandable wording. Complete these assignments in a tutorial type format as if you were explaining the materials to someone who was unfamiliar with the information.</p>	<p><u>Read chapter 1 in the textbook and all the materials posted on the web-assist site; and do the Discussion Forum posted on Web-Site for this week.</u></p>

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This course has an in-class final exam. Final exam date: Week of 13 December 2012

Additional Final Exam Information:

Method of Instruction

Instructional techniques must be appropriate, and at a collegiate level, to the specific goals and objectives cited above. Students and instructors must have a clear understanding of the goals and time requirements of this course, the nature of the course context, and method of evaluation.

This course has two distinct but related instructional phases. The first component constitutes a minimum of 27.5 direct faculty instruction hours. This component is the lecture series and provides instruction in theory, principles or practices of the course. The second component constitutes a maximum of 27.5 appropriate classroom activity hours. This component is the skill development phase of the course and provides students the opportunity to apply knowledge gained in the lecture series. Method of instruction must fulfill the intended learner outcomes and competencies stated in the course goals and objectives and are appropriate to the capabilities of the students. For career oriented courses, the instructor must demonstrate that an effective relationship exists between curricular content and current practices in the field.

Additional Class Notes

Go to <http://www.openeducation.org/moodle> to use the Web-Assisted site for this course and *WSMCTS70-640 Microsoft Certified Technical Specialist Certification* (Test 70-640), which you will also find in the Open Education Portal. There will be workshops held at least once per week throughout the term in order to study for the test.

Quizzes and discussion forums will be completed on-line at this site. This site will have a detailed explanation of all of the course requirements, materials, readings, videos.

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